



DEPARTMENT OF THE NAVY

OFFICE OF COUNSEL
NAVAL UNDERSEA WARFARE CENTER DIVISION
1176 HOWELL STREET
NEWPORT RI 02841-1708

IN REPLY REFER TO.

MFO:amc
Ser 3000C/P270
Attorney Docket No. 78333
14 July 2003

Assistant Commissioner for Patents
Washington, DC 20231

Applicant: GREGORY H. AMES ET AL
Serial No. 09/983,048
Filed: 15 October 2001
For: FIBER OPTIC CURVATURE SENSOR FOR
TOWED HYDROPHONE ARRAYS

Sir:

There is submitted herewith an amendment in the above-identified application, which, if entered, adds additional claims(s) not previously paid for, as follows:

1. Total number of claims remaining in the application after this amendment is entered in excess of 20 and in excess of the number of claims for which a fee was previously paid, times \$18.00.....\$ 0
2. Total number of independent claims remaining in the application after this amendment is entered in excess of the number of claims for which a fee was previously paid, times \$84.00.....\$ 0

Kindly charge any additional fees to Deposit Account No. 14-0590.

Respectfully,

JAMES M. KASISCHKE
Attorney of Record
Reg. No. 36562

Encl:
(1) Amendment

FAX RECEIVED

JUL 14 2003

TECHNOLOGY CENTER 2800

Attorney Docket No. 78333

14 July 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: GREGORY H. AMES ET AL. Group Art Unit: 2874
Serial No.: 09/983,048 Examiner: E. Kim
Filed: 15 October 2001 Fax Number: 703-872-9318
For: FIBER OPTIC CURVATURE SENSOR FOR TOWED HYDROPHONE ARRAYS

AMENDMENT

To the Commissioner for Patents
Alexandria, VA

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JUL 14 2003

Dear Sir:

TECHNOLOGY CENTER 2800

In response to the Office Letter mailed 15 April 2003,
amend the above-captioned patent applications as follows:

IN THE CLAIMS:

Amend claims 1, 15, 21 and 24 - 34 to read as follows:

1. (Amended) A system for detecting curvature in a towed
hydrophone array, said system comprising:

at least two curvature sensors positioned along the length
of the towed hydrophone array;

each of said curvature sensors comprising a bend member
which bends as the array bends, at least one optical
fiber within the bend member, and at least one

I hereby certify that this paper is being FACSIMILE transmitted to the
Assistant Commissioner for Patents on the date shown below.

Michael K. Ogles
APPLICANT'S ATTORNEY

14 July 2003
DATE OF SIGNATURE